

AMENDMENT

Please amend the claims as follows:

Sub D1 1. (Twice Amended) A method for modifying the carbohydrate composition of a plant or plant organ, wherein said method comprises growing a [stably] transformed transgenic plant containing a vector or recombinant expression construct encoding a microbial endo-glucanase operably linked to a regulatory or leader sequence under conditions wherein said glucanase-[encoding construct] is expressed and the carbohydrate composition of said plant or plant organ is modified by the expressed glucanase and said regulatory sequence is selected from the group consisting of

- a) a regulatory sequence that directs expression of said enzyme-encoding nucleotide sequence at a selected stage of development or maturity of the transgenic plant or plant organ;
- b) a regulatory sequence comprising a 35S CaMV promoter; and
- c) a regulatory sequence directs tissue-specific expression of said enzyme-encoding nucleotide sequence in a plant; and wherein said leader sequence targets the expressed endo-glucanase to the carbohydrate material.

Cancel claim 26.

2 27. (Amended) The method of claim 1 [26], wherein said endo-glucanase is an endo-1,3- β -glucanase.

28. (Amended) The method of claim 1 [26], wherein said endo-glucanase is an endo-1,4- β -glucanase.

3 36. (Amended) The method of claim 1, wherein said [expression cassette contains a] regulatory sequence [operably linked to and capable of directing] directs tissue-specific expression of said DNA expression construct or vector.

C4 39. (Amended) The method of claim 1, wherein said DNA expression cassette or vector [encoding the enzyme is fused to] contain a nucleotide sequence encoding a leader sequence that is operably linked to said enzyme, said leader sequence being capable of targeting the enzyme to a cellular compartment or organelle.

Sub 7 42. (Amended) The method of claim 1, wherein said transgenic plant contains at least one expression cassette which contains a nucleotide sequence encoding a second microbial enzyme that acts upon degradation products resulting from the action of the first enzyme.

Cancel claim 45.

C1 Sub 7 48. The method of claim [45] 42, wherein the second enzyme is selected from the group consisting of a maltase, an α -dextrinase, an α -1,6-glucosidase, a glucose isomerase and an invertase.

Sub E1 54. A recombinant DNA expression cassette comprising a regulatory sequence operably linked to a nucleotide sequence encoding [a] an endo-microbial glucanase which regulatory sequence is selected from the group consisting of

- a) a regulatory sequence that directs expression of said enzyme-encoding nucleotide sequence at a selected stage of development or maturity of the transgenic plant or plant organ;
- b) a regulatory sequence comprising a 35S CaMV promoter; and
- c) a regulatory sequence directs tissue-specific expression of said enzyme-encoding nucleotide sequence in a plant.

C8 Sub 7 56. A stably transformed, transgenic plant, characterized in that said plant contains an expression cassette according to [any one of claims] claim 54.